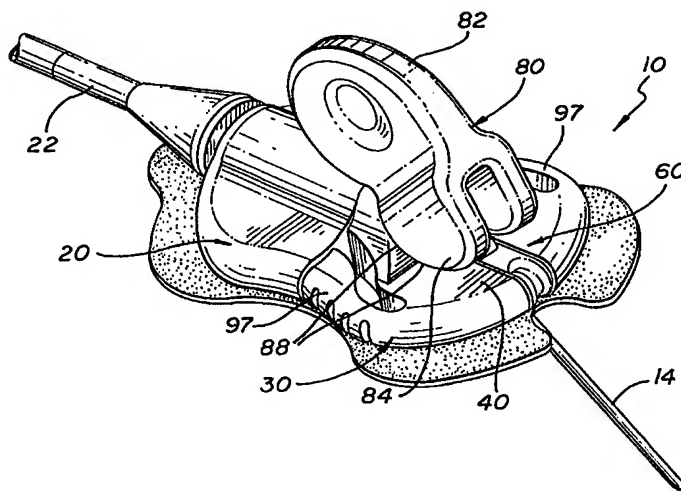




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(21) International Application Number: PCT/US98/10832 (22) International Filing Date: 27 May 1998 (27.05.98) (30) Priority Data: 08/871,831 9 June 1997 (09.06.97) US (71) Applicant: MINIMED INC. [US/US]; 12744 San Fernando Road, Sylmar, CA 91342 (US). (72) Inventors: VANANTWERP, Nannette, M.; 24101 West Del Monte Drive #418, Valencia, CA 91355 (US). HALILI, Edgardo, C.; 18435 Keswick Street #20, Reseda, CA 91335 (US). (74) Agent: LOWRY, Stuart, O.; Kelly Bauersfeld Lowry & Kelley, LLP, Suite 1650, 6320 Canoga Avenue, Woodland Hills, CA 91367 (US).		(81) Designated States: CA, JP, European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE). Published <i>With international search report.</i>

(54) Title: INSERTION SET FOR A TRANSCUTANEOUS SENSOR



(57) Abstract

An improved insertion set (10) is provided for transcutaneous placement of a sensor (12) such as a glucose sensor at a selected site within the body of a patient. The insertion set comprises a mounting base (30) defining an upwardly open channel for receiving and supporting a flexible thin film sensor (12), in combination with a cap (60) assembled with said mounting base (30) to capture and retain proximal end of the sensor (12) within said channel. The sensor (12) further includes a distal segment with sensor electrodes thereon which protrude from the mounting base (30) for transcutaneous placement, wherein the sensor distal segment is slidably carried by a slotted insertion needle fitted through the assembled base and cap (60). Placement of the insertions against the patient's skin causes the insertion needle to pierce the skin to carry the sensor electrodes to the desired subcutaneous site, after which the insertion needle can be slidably withdrawn from the insertion set (10). The mounting base (30) further includes a fitting and related snap latch members for mated slide fit releasable coupling of conductive contact pads (18) on a proximal end of the sensor to a cable connector for transmitting sensor signals to a suitable monitoring device.

